LakeShore
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LakeShore Temperature Controllers

Selection Chart

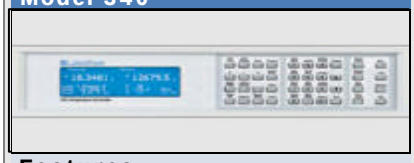
Model 370 AC Resistance Bridge

Features

- Useful down to below 20 mK
- Supports RTD sensors
- One sensor input; expandable to 16 sensor inputs
- One control loop: 1 W
- AC sinusoidal current excitation as low as 3 pico Amps
- PID temperature control
- IEEE-488 and serial interface, analog outputs, and alarm relays

More Details Add To Cart

Model 340



Features

- Useful down to below 300 mK with appropriate RTD sensors
- Supports diode, RTD, Capacitance, and thermocouple sensors
- Two sensor inputs; expandable to ten sensor inputs
- Scalable sensor excitation current as low as 30 nA for use with NTC resisters to below 300 mk
- Sensor excitation current reversal for resistance temperature sensors
- Two control loops: 100W and 1 W
- Autotuning
- IEEE-488 and serial interface, analog outputs, digital I/O, and alarm relays

More Details Add To Cart

Model 332

Features

- Useful down to below 1 K with appropriate RTD sensors
- Supports diode, RTD, and thermocouple sensors
- Two sensor inputs
- Scalable sensor excitation current as low as 1 uA for use with NTC resisters to below 1 K
- Sensor excitation current reversal for resistance temperature sensors
- Two control loops: 50 W and 10 W
- Autotuning
- IEEE-488 and serial interface, analog outputs and alarm relays

More Details Add To Cart

Model 331

Features

- Useful down to 1.4 K
- Supports diode, RTD, and thermocouple sensors
- Two sensor inputs
- Sensor excitation current as low as 10 uA for use with NTC resisters to below 1 K
- Sensor excitation current reversal for resistance temperature sensors
- Two control loops: 50 W and 1 W
- Autotuning
- IEEE-488 and serial interface, analog outputs and alarm relays

More Details Add To Cart

Model 321

Features

- Useful down to 1.4 K
- Supports one silicon diode, platinum RTD, or thermocouple sensor
- One sensor input
- Autotuning
- RS-232 interface

More Details Add To Cart

Selection Chart

	370	340	332	331S	331E	321	
Sensor input(s)	1or16	2,4, or 10	2	2	2	1	
Control loop(s)	1	2	2	2	2	1	
Heater output(s)	1W	100 W/ 1W	50 W/ 1W	50 W/ 1W	50 W	25 W	
RSs232C interface	X	X	X	X	X	X	
IEEE-4888 interface	X	X	X	X			
Analog outout(s)	2 @± 10V	2 @± 10V	2 @± 10V	1 @± 10V		1 @± 10V	
Relays	X	X	X	X			
CE Mark	X	X	X	X	X		
Supported Sensors	**Minimum temperature with instrument**						**Max***
Silicon Diodes		1.4 K	1.4 K	1.4 K	1.4 K	1.4 K	500 K
GaAlAs diodes		1.4 K	1.4 K	1.4 K	1.4 K		500 K
Cernox ™	300 mK	300 mK	1 K	2 K	2 K		420 K
Germanium	< 50 mK	300 mK	1 K	2 K	2 K		100 K
Carbon-Glass™	1.4 K	1.4 K	3 K	3 K	3 K		325 K
Ruthenium Oxide	< 50 mK	300 mK	1 K	2 K	2 K		300 K
Platinum	14 K	30 K	30 K	30 K	30 K		800 K
Rhodium-iron	1.4 K	1.4 K	1.4 K	1.4 K	1.4 K	1.4 K	400 K
Capacitance		1.4 K					290 K
Thermocouples		1.4 K	1.4 K	1.4 K	1.4 K	1.4 K	1530 K

* Maximum sensor temperature with any Lake Shore temperature controller.

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